Printed on: 2/10/2011 7:08:36 AM

| National Transportation Safety Board | | NTSB ID | NYC04LA08 | 2 | Aircraft Registration Number: N163GT | | | |
|---|---------------------|---------|----------------|------------|--------------------------------------|------------------|--|--|
| 7 | | | ce Date: 03/07 | 7/2004 | Most Critical Injury: Minor | | | |
| AVIATION Occur | | | ce Type: Accid | lent | Investigated By: NTSB | | | |
| Location/Time | | | | | | | | |
| Nearest City/Place | State Zip | | p Code | Local Time | Time Zone | | | |
| Frederick | MD 21 | | 1701 | 1053 | EST | | | |
| Airport Proximity: Off Airport/Airstrip | m Landing Facility: | | | | | | | |
| Aircraft Information Summary | | | | | | | | |
| Aircraft Manufacturer | | | Model/Series | 5 | | Type of Aircraft | | |
| SOCATA | TB-20 | | | Airplane | | | | |
| Revenue Sightseeing Flight: No Air Medical Transport Flight: No | | | | | | | | |

Narrative

Brief narrative statement of facts, conditions and circumstances pertinent to the accident/incident:

On March 7, 2004, at 1053 eastern standard time, N163GT, a Socata TB-20, was substantially damaged during a forced landing following a total loss of engine power, after departing from the Frederick Municipal Airport (FDK), Frederick, Maryland. The certificated private pilot and passenger received minor injuries. Visual meteorological conditions prevailed and no flight plan was filed for the local personal flight conducted under 14 CFR Part 91.

The pilot stated that he performed a complete preflight inspection and noticed no abnormalities with the engine. During the initial takeoff climb from runway 30, at an altitude of 400 feet, he noticed the engine power decrease to 1,500 rpm, and several seconds later, the engine lost complete power. The pilot then performed a forced landing to a soft field, during which the wings and fuselage of the airplane were substantially damaged.

A Federal Aviation Administration (FAA) inspector performed a preliminary examination of the airplane after the accident. According to the inspector, he observed about 2-3 gallons of fuel in the left wing fuel tank; however, the tank was breached. The inspector reported there was "sufficient" fuel in the right tank. Examination of the cockpit throttle and propeller controls revealed they were in the full forward position, and the mixture control, which sustained impact damage, was in the 3/4 full forward position. The spark plugs were removed, and no anomalies were noted. The fuel servo displayed impact damage, and the fuel inlet line was separated from the inlet side of the servo.

The engine was test run on the airframe with a replacement fuel injector and fuel line. The engine started, and ran for several seconds, without any anomalies, before being shut down.

The National Transportation Safety Board's Metallurgical Lab examined pictures taken of the fuel injector inlet line, by an electron scanning microscope. According to the Metallurgical Lab, the damage to the fuel line was consistent with impact damage, and no evidence of cross-threading was noted.

According to the operator of the airplane, it had been topped off with fuel the day prior to the accident, and had flown about 2.5 hours since then.

A 100-hour inspection was performed on the airplane on March 2, 2004, and the airplane had flown approximately 8 hours since then.

National Transportation Safety Board
FACTUAL REPORT

NTSB ID: NYC04LA082

Occurrence Date: 03/07/2004

| TACIONE | * | | | - 00/01/2001 | | | | | | | |
|---|--------------------|-------------------|---------------------------|--|---------|----------------|---------------------|----------------|--------------------------|------------------|----------|
| AVIATION Oca | | | Occurrence Type: Accident | | | | | | | | |
| Landing Facility/Approach In | formation | | | | | | | | | | |
| Airport Name | irport ID: | Airport Elevation | Run | Runway Used Runw | | nway Length | | Runway W | idth | | |
| Frederick Municipal Airport | -DK | 303 Ft. MSI | _ 30 | 3600 | | | | 75 | | | |
| Runway Surface Type: Asphalt | | | | | | | | | | | |
| Runway Surface Condition: Dry | | | | | | | | | | | |
| Approach/Arrival Flown: NONE | Ē | | | | | | | | | | |
| VFR Approach/Landing: Forced L | anding | | | | | | | | | | |
| Aircraft Information | | | | | | | | | | | |
| Aircraft Manufacturer SOCATA | | | Model TB-2 | /Series 0 | | | | Serial 2000 | Number | | |
| Airworthiness Certificate(s): Normal | | | | | | | | | | | |
| Landing Gear Type: Retractable | - Tricycle | | | | | | | | | | |
| Amateur Built Acft? No Number of Seats: 4 | | | | Certified Max Gross Wt. | | | LBS Numbe | | | er of Engines: 1 | |
| • | | | | Engine Manufacturer: Model/Set Lycoming IO-540 | | | | | ries: Rated Po 250 HP | | |
| - Aircraft Inspection Information | | | | | | | | | | | |
| Type of Last Inspection | | [| Date of Las | st Inspection | Time Si | nce Last Insp | Airframe Total Time | | | | |
| 100 Hour | | | 03/2004 | | | 8 Hours | | | | 1126 Hours | |
| - Emergency Locator Transmitter (| ELT) Information | | | | | | | | | | |
| ELT Installed?/Type Yes / | | E | ELT Opera | ted? Yes | ELT Aid | ded in Locatin | g Accide | ent Site? | ? No | | |
| Owner/Operator Information | | | _ | | | | | | | | |
| Registered Aircraft Owner | | | Street A | Address 3511 Silversi | de Rd., | Suite 105 | | | | | |
| Delmarva Aviation Services In | C. | | City Wilmington | | | | | | | Zip 0 | |
| | | | Street A | | | | | | DE | 11001 | <u> </u> |
| Operator of Aircraft | | | | | | | | | 01-1- | 1 7: 6 | |
| Frederick Flight Center | | | | City State MD | | | | | | Zip C | Code |
| Operator Does Business As: Operator Designator Code: | | | | | | | | | | | |
| - Type of U.S. Certificate(s) Held: 1 | Vone | | | | | | | | | | |
| Air Carrier Operating Certificate(s) | : | | | | | | | | | | |
| Operating Certificate: | | | | Operator Certifi | cate: | | | | | | |
| Regulation Flight Conducted Unde | r: Part 91: Genera | l Aviatic | on | | | | | | | | |
| Type of Flight Operation Conducted | d: Personal | | | | | | | | | | |
| | I | FACTU | AL REPC | RT - AVIATION | | | | | | Pag | ge 2 |

National Transportation Safety Board
FACTUAL REPORT
AVIATION

NTSB ID: NYC04LA082

Occurrence Date: 03/07/2004

| | AVIATI | Occurrence Type: Accident | | | | | | | | | | | | |
|--|--------------------|---------------------------|---------------------|---------------------------|-------------------------|--|--------------|------------|------------------------|-----------|----------------|------------|-------------|---------------------|
| First Pilot | t Information | | | | | | | | | | | | | |
| Name | | | | | | City | State | | | tate | Date | e of Birth | Age | |
| On File | | On File | | | | | | O | n File | On | File | 52 | | |
| Sex: M Seat Occupied: Left Occupational Pilot? Unknown | | | | | | | | | | Certific | ate Num | nber: (| On File | |
| Certificate(| s): Priva | ate | • | | | | | | | | | | | |
| Airplane Ra | ating(s): Sing | le-engine La | and | | | | | | | | | | | |
| Rotorcraft/0 | Glider/LTA: None | e | | | | | | | | | | | | |
| Instrument | Rating(s): None | e | | | | | | | | | | | | |
| Instructor F | Rating(s): None | е | | | | | | | | | | | | |
| Current Bie | nnial Flight Revie | ew? 07/2003 | 3 | | | | | | | | | | | |
| Medical Ce | rt.: Class 3 | Medica | al Cert. Status | s: Valid Med | dicalw/ wa | aivers/l | im. | | Date | of Last N | Medical I | Exam: | : 12/2002 | |
| | | I | | | | | | | - | | | | | |
| - Flight Tim | ne Matrix | All A/C | This Make and Model | Airplane Single Engine | Airplane Mult-Engine | Nig | Night Instru | | nstrument Simulated | | Rotorcraft | | Glider | Lighter Than Air |
| Total Time | | 568 | 430 | 568 | 0 | | 33 | 1 | 2 | 116 | | | | |
| Pilot In Cor | mmand(PIC) | 438 | 430 | 438 | 0 | | 33 | | | | | | | |
| Instructor | | | | | | | | | | | | | | |
| Instruction | Received | | | | | | | | | | | | | |
| Last 90 Da | ys | 10 | 10 | 10 | | | | | | | | - | | |
| Last 30 Da | | 3 | 3 | 3 | | - | | | _ | | | _ | | |
| Last 24 Ho | | | | | | | | | | | - | | | |
| Seatbelt Us | sed? Yes | Shou | ılder Harness | Used? No | | | Toxico | logy Perfo | rmed? | No. | S | Second | d Pilot? No |) |
| Flight Pla | n/Itinerary | | | | | | | | | | | | | |
| Type of Flig | ght Plan Filed: No | one | | | | | | | | | | | | |
| Departure I | Point | | | | | | State Airp | | irport Identifier | | Departure Time | | Time | Time Zone |
| Same as Accident/Incident Location FDK | | | | | | | | EST | | | | | | |
| Destination State Airport Identifier | | | | | | | | | | | | | | |
| Local Flight | | | | | | | FDK | | | | | | | |
| Type of Cle | earance: None | | | | | | | · | | | | | | |
| Type of Air | space: Class | G | | | | | | | | | | | | |
| Weather | Information | | | | | | | | | | | | | |
| Source of | Wx Information: | | | | | | | | | | | | | |
| | Flight | Service Sta | tion | | | | | | | | | | | |
| | | | | FACTUAL | REPORT | - AVI | ATION | 1 | | | | | | Page 3 |

National Transportation Safety Board
FACTUAL REPORT

NTSB ID: NYC04LA082

Occurrence Date: 03/07/2004

| AVIATION | | | Occurr | Occurrence Type: Accident | | | | | | | | | |
|-----------------------------------|-------------------|---------------|-----------------|---------------------------|-----------|---------------------------------|--------|-------------------------|---------------|------------------------------|-----------|-----|--|
| Weather | Information | | | | | | | | | | | | |
| WOF ID | Observation Time | Time Zone | e WOF Elevation | | | WOF Distance From Accid | | | | Direction From Accident Site | | | |
| | | | | | | | | | | | | | |
| FDK | 1100 | EST | 303 | Ft. MSL | | | | | NM | | Deg. Mag. | | |
| Sky/Lowest Cloud Condition: Clear | | | | | | Ft. AGL Condition of Light: Day | | | | | | | |
| Lowest Ce | iling: None | | | Ft. AGL | | Visibility: 10 | | SM | SM Altimeter: | | 29.98 | "Hg | |
| Temperatu | ıre: 14 °C [| Dew Point: | 1 ° | C Weat | her Condi | tions at Accid | lent S | ite: Visual (| Conc | ditions | | | |
| Wind Direct | etion: 280 | Wind Speed | l: 8 | | Wine | d Gusts: | | | | | | | |
| Visibility (R | RVR): Ft. | Visibility (R | VV) | SM | Γ' | | | | | | | | |
| Precip and | /or Obscuration: | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| Accident | Information | | | | | | | | | | | | |
| Aircraft Dar | mage: Substantial | | Aircraft | Aircraft Fire: None | | | | Aircraft Explosion None | | | | | |
| | | | • | | | | | | | | | | |
| - Injury Sur | mmary Matrix | Fatal Se | rious N | linor | None | TOTAL | | | | | | | |
| First Pil | lot | | | 1 | | 1 | | | | | | | |
| Second | f Pilot | | | | | | | | | | | | |
| Studen | t Pilot | | | | | | | | | | | | |
| Flight Ir | nstructor | | | | | | | | | | | | |
| Check I | Pilot | | | | | | | | | | | | |
| Flight E | ingineer | | | | | | | | | | | | |
| Cabin A | Attendants | | | | | | | | | | | | |
| Other C | Crew | | | | | | | | | | | | |
| Passen | gers | | | 1 | | 1 | | | | | | | |
| - TOTAL A | ABOARD - | | | 2 | | 2 | | | | | | | |
| Other G | Ground | | | | | | | | | | | | |
| - GRAND | TOTAL - | | | 2 | | 2 | | | | | | | |
| | | | | · | | | | | | | | | |

National Transportation Safety Board

FACTUAL REPORT AVIATION

NTSB ID: NYC04LA082

Occurrence Date: 03/07/2004

Occurrence Type: Accident

| istrative | |
|-----------|--|
| | |
| | |

Investigator-In-Charge (IIC)

Jill M. Andrews

Additional Persons Participating in This Accident/Incident Investigation:

Tony Serio FAA/FSDO Glen Burnie, MD